

7. GDMO Definitions

7

7.1. Overview

The GDMO interface definitions provided below support the SOA to NPAC SMS interface and the NPAC SMS to Local SMS interface. Included in this chapter of the interface specification are object name bindings, attribute, package, action, and notification definitions.

7.2. -- Object Definitions

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-- 1.0 LNP Audits Managed Object

```
lnpAudits MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":top;
  CHARACTERIZED BY
    lnpAuditsPkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 1};
```

```
lnpAuditsPkg PACKAGE
  BEHAVIOUR
    lnpAuditsDefinition,
    lnpAuditsBehavior;
  ATTRIBUTES
    lnpAuditsName GET;
  ;
```

```
lnpAuditsDefinition BEHAVIOUR
  DEFINED AS !
    The lnpAudits class is the managed object that is used as
    the container object for the subscriptionAudit objects on the
    NPAC SMS. This object has been created for scoping efficiency.
  !;
```

```
lnpAuditsBehavior BEHAVIOUR
  DEFINED AS !
    NPAC SMS Managed Object for the SOA to NPAC SMS interface.
```

The service provider SOA can M-GET any lnpAudits object on the NPAC SMS. (SOA Management Association Function).
The Local SMS can not M-GET any lnpAudits object on the NPAC SMS.

The lnpAuditsName attribute is read only and can not be changed via the Local SMS or SOA Interface once the object has been created. The value of lnpAuditsName will always be "lnpAudits".

Only one of these objects will exist per agent and it will only be created at startup of the CMIP agent software on the NPAC SMS.

!;

-- 2.0 LNP Local SMS Managed Object Class

```
lnpLocalSMS MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":top;
  CHARACTERIZED BY
    lnpLocalSMS-Pkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 2};
```

```
lnpLocalSMS-Pkg PACKAGE
  BEHAVIOUR
    lnpLocalSMS-Definition,
    lnpLocalSMS-Behavior;
  ATTRIBUTES
    lnpLocal-SMS-Name GET;
  ;
```

```
lnpLocalSMS-Definition BEHAVIOUR
  DEFINED AS !
    The lnpLocalSMS class is the managed object that is used as the
    container object for all Local SMS data in the NPAC SMS to
    Local SMS Interface.
  !;
```

```
lnpLocalSMS-Behavior BEHAVIOUR
  DEFINED AS !
    Local SMS Managed Object.

    The NPAC SMS can M-GET any lnpLocalSMS object (Data Download
    Association Function).
    The lnp-LocalSMS-Name attribute is read only and can not
    be changed via the Local SMS Interface once the object has
    been created. The value of lnpLocal-SMS-Name will always be
    a unique identifier for the Local SMS for the NPAC SMS to
    Local SMS Interface.

    Only one of these objects will exist and it will only be
    created at startup of the CMIP agent software on the Local
    SMS.
  !;
```

-- 3.0 LNP Log Record for the Subscription Audit Local SMS Discrepancy Report

```
lnpLogAudit-DiscrepancyRptRecord MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":eventLogRecord;
  CHARACTERIZED BY
    lnpLogAudit-DiscrepancyRptPkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 3};
```

```
lnpLogAudit-DiscrepancyRptPkg PACKAGE
  BEHAVIOUR
    lnpLogAudit-DiscrepancyRptDefinition,
    lnpLogAudit-DiscrepancyRptBehavior;
  ATTRIBUTES
    auditDiscrepancyTn GET,
    auditDiscrepancyVersionId GET,
    auditDiscrepancyLSMS-SP-Id GET,
    auditDiscrepancyFailureReason GET,
    accessControl GET;
  ;
```

```
lnpLogAudit-DiscrepancyRptDefinition BEHAVIOUR
  DEFINED AS !
    The lnpLogAudit-DiscrepancyRptRecord class is the managed
    object that is used to create log records for the
    subscriptionAudit-DiscrepancyRpt Notification.
  !;
```

```

InpLogAudit-DiscrepancyRptBehavior BEHAVIOUR
  DEFINED AS !
    This log record can be used by any CME wanting to log the
    subscriptionAudit-DiscrepancyRpt Notification.
  !;

-- 4.0 LNP Log Record for the Subscription Audit Results

InpLogAuditResultsRecord MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":eventLogRecord;
  CHARACTERIZED BY
    InpLogAuditResultsPkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 4};

InpLogAuditResultsPkg PACKAGE
  BEHAVIOUR
    InpLogAuditResultsDefinition,
    InpLogAuditResultsBehavior;
  ATTRIBUTES
    auditResultStatus GET,
    auditResultFailed-SP-List GET,
    auditResultNumberDiscrepancies GET,
    auditResultCompletionTime GET,
    accessControl GET;
  ;

InpLogAuditResultsDefinition BEHAVIOUR
  DEFINED AS !
    The InpLogAuditResultsRecord class is the managed object
    that is used to create log records for the
    subscriptionAuditResults Notification.
  !;

InpLogAuditResultsBehavior BEHAVIOUR
  DEFINED AS !
    This log record can be used by any CME wanting to log the
    subscriptionAuditResults Notification.
  !;

-- 5.0 LNP Log Record for the Subscription Version Cancellation
-- Acknowledge Request Notification

InpLogCancellationAcknowledgeRequestRecord MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":eventLogRecord;
  CHARACTERIZED BY
    InpLogCancellationAcknowledgeRequestPkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 5};

InpLogCancellationAcknowledgeRequestPkg PACKAGE
  BEHAVIOUR
    InpLogCancellationAcknowledgeRequestDefinition,
    InpLogCancellationAcknowledgeRequestBehavior;
  ATTRIBUTES
    subscriptionTN GET,
    subscriptionVersionId GET,
    accessControl GET;
  ;

InpLogCancellationAcknowledgeRequestDefinition BEHAVIOUR
  DEFINED AS !
    The InpLogCancellationAcknowledgeRequestRecord class is
    the managed object that is used to create log records for the
    subscriptionVersionCancellationAcknowledgeRequest
    Notification.
  !;

```

```

InpLogCancellationAcknowledgeRequestBehavior BEHAVIOUR
  DEFINED AS !
    This log record can be used by any CME wanting to log the
    subscriptionVersionCancellationAcknowledgeRequest
    Notification.
  !;

-- 7.0 LNP Log Record for the Subscription Version New SP Create Request
--   Notification

InpLogNewSP-CreateRequestRecord MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":eventLogRecord;
  CHARACTERIZED BY
    InpLogNewSP-CreateRequestPkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 7};

InpLogNewSP-CreateRequestPkg PACKAGE
  BEHAVIOUR
    InpLogNewSP-CreateRequestDefinition,
    InpLogNewSP-CreateRequestBehavior;
  ATTRIBUTES
    subscriptionTN GET,
    subscriptionVersionId GET,
    subscriptionOldSP GET,
    subscriptionOldSP-DueDate GET,
    subscriptionOldSP-Authorization GET,
    subscriptionOldSP-AuthorizationTimeStamp GET,
    subscriptionStatusChangeCauseCode GET,
    accessControl GET;
  ;

InpLogNewSP-CreateRequestDefinition BEHAVIOUR
  DEFINED AS !
    The InpLogNewSP-CreateRequestRecord class is the managed
    object that is used to create log records for the
    subscriptionVersionNewSP-CreateRequest Notification.
  !;

InpLogNewSP-CreateRequestBehavior BEHAVIOUR
  DEFINED AS !
    This log record can be used by any CME wanting to log the
    subscriptionVersionNewSP-CreateRequest Notification.
  !;

-- 8.0 LNP Log Record for the Subscription Version Old SP Concurrence Request
--   Notification

InpLogOldSP-ConcurrenceRequestRecord MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":eventLogRecord;
  CHARACTERIZED BY
    InpLogOldSP-ConcurrenceRequestPkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 8};

InpLogOldSP-ConcurrenceRequestPkg PACKAGE
  BEHAVIOUR
    InpLogOldSP-ConcurrenceRequestDefinition,
    InpLogOldSP-ConcurrenceRequestBehavior;
  ATTRIBUTES
    subscriptionTN GET,
    subscriptionVersionId GET,
    subscriptionNewCurrentSP GET,
    subscriptionNewSP-DueDate GET,
    subscriptionNewSP-CreationTimeStamp GET,
    accessControl GET;
  ;

```

```

InpLogOldSP-ConcurrenceRequestDefinition BEHAVIOUR
  DEFINED AS !
    The InpLogOldSP-ConcurrenceRequestRecord class is the managed
    object that is used to create log records for the
    subscriptionVersionOldSP-ConcurrenceRequest Notification.
  !;

InpLogOldSP-ConcurrenceRequestBehavior BEHAVIOUR
  DEFINED AS !
    This log record can be used by any CME wanting to log the
    subscriptionVersionOldSP-ConcurrenceRequest Notification.
  !;

-- 9.0 LNP Log Record for the NPAC SMS Operational Information Notification

InpLogOperational-InformationRecord MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":eventLogRecord;
  CHARACTERIZED BY
    InpLogOperational-InformationPkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 9};

InpLogOperational-InformationPkg PACKAGE
  BEHAVIOUR
    InpLogOperational-InformationDefinition,
    InpLogOperational-InformationBehavior;
  ATTRIBUTES
    downTime GET,
    npacContactNumber GET,
    additionalDownTimeInformation GET,
    accessControl GET;
  ;

InpLogOperational-InformationDefinition BEHAVIOUR
  DEFINED AS !
    The InpLogOperational-InformationRecord class is the managed object
    that is used to create log records for the
    InpNPAC-SMS-Operational-Information Notification.
  !;

InpLogOperational-InformationBehavior BEHAVIOUR
  DEFINED AS !
    This log record can be used by any CME wanting to log the
    InpNPAC-SMS-Operational-Information Notification.
  !;

-- 10.0 LNP Log Record for the Subscription Version Status Attribute Value
-- Change Notification

InpLogStatusAttributeValueChangeRecord MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":eventLogRecord;
  CHARACTERIZED BY
    InpLogStatusAttributeValueChangePkg;
  CONDITIONAL PACKAGES
    subscriptionVersionAttributeValueChangeFailed-SP-ListPkg PRESENT IF
      !the version status is failed or partially failed!,
    subscriptionStatusChangeCauseCodePkg PRESENT IF
      !the the version status is set to conflict by the old service
      provider!;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 10};

InpLogStatusAttributeValueChangePkg PACKAGE
  BEHAVIOUR
    InpLogStatusAttributeValueChangeDefinition,

```

```

    lnpLogStatusAttributeValueChangeBehavior;
ATTRIBUTES
    subscriptionVersionAttributeValueChangeInfo GET,
    accessControl GET;
;

lnpLogStatusAttributeValueChangeDefinition BEHAVIOUR
    DEFINED AS !
        The lnpLogStatusAttributeValueChangeRecord class is the managed
        object that is used to create log records for the
        subscriptionVersionStatusAttributeValueChange Notification.
    !;

lnpLogStatusAttributeValueChangeBehavior BEHAVIOUR
    DEFINED AS !
        This log record can be used by any CME wanting to log the
        subscriptionVersionStatusAttributeValueChange Notification.
    !;

-- 11.0 LNP Network Managed Object Class

lnpNetwork MANAGED OBJECT CLASS
    DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":top;
    CHARACTERIZED BY
        lnpNetworkPkg;
    CONDITIONAL PACKAGES
        lnpDownloadPkg PRESENT IF
            !the object is instantiated on the NPAC SMS!;
    REGISTERED AS {LNP-OIDS.lnp-objectClass 11};

lnpNetworkPkg PACKAGE
    BEHAVIOUR
        lnpNetworkDefinition,
        lnpNetworkBehavior;
    ATTRIBUTES
        lnpNetworkName GET;
;

lnpNetworkDefinition BEHAVIOUR
    DEFINED AS !
        The lnpNetwork class is the managed object that is used as the
        container object for the serviceProvNetwork objects.
        This object has been created primarily for scoping efficiency.

        The lnpDownloadPkg will only be used for lnpNetwork object
        instantiated on the NPAC SMS (Data Download Association Function).
        This package is used for initiating from the Local SMS downloading
        of serviceProvNetwork, serviceProvNPA-NXX, and serviceProvLRN object
        creation or deletion to the Local SMS from the NPAC SMS.
    !;

lnpNetworkBehavior BEHAVIOUR
    DEFINED AS !
        Local SMS and NPAC SMS Managed Object used for the Local SMS to
        NPAC SMS interface.

        The Local SMS and the NPAC SMS can M-GET any lnpNetwork
        object (Data Download Association Function). The lnpNetworkName
        attribute is read only and can not be changed via the NPAC SMS
        to Local SMS Interface once the object has been created. The
        value of lnpNetworkName will always be "lnpNetwork".

        Only one of these objects will exist and it will only be
        created at startup of the CMIP agent software on the NPAC SMS
        or the Local SMS.
    !;

```

-- 12.0 LNP NPAC SMS Managed Object Class

```

lnpNPAC-SMS MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":top;
  CHARACTERIZED BY
    lnpNPAC-SMS-Pkg,
    lnpRecoveryCompletePkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 12};

lnpNPAC-SMS-Pkg PACKAGE
  BEHAVIOUR
    lnpNPAC-SMS-Definition,
    lnpNPAC-SMS-Behavior;
  ATTRIBUTES
    lnpNPAC-SMS-Name GET;
  NOTIFICATIONS
    lnpNPAC-SMS-Operational-Information;
  ;

```

```

lnpNPAC-SMS-Definition BEHAVIOUR
  DEFINED AS !
    The lnpNPAC-SMS class is the managed object that is used as
    the container object for all NPAC SMS objects in the NPAC SMS to
    Local SMS Interface and the SOA to NPAC SMS interface.
  !;

```

```

lnpNPAC-SMS-Behavior BEHAVIOUR
  DEFINED AS !
    NPAC SMS Managed Object for the SOA to NPAC SMS and the Local SMS
    to NPAC SMS interface.

    A Local SMS (Data Download Association Function) and service
    provider SOA (SOA Management Association Function) can M-GET
    any lnpNPAC-SMS object.

    The lnpNPAC-SMS-Name attribute is read only and can not be
    changed via either Interface once the object has been created.
    The value of lnpNPAC-SMS-Name will be set to "Illinois-NPAC-SMS"
    in Illinois.

    The lnpRecoveryComplete-Pkg is used to used for indicating the
    recovery mode for the Local SMS is complete and to return all
    updates made since the recovery mode began. (Data Download Functional
    Group).

    Only one of these objects will exist and it will only be
    created at startup of the CMIP agent software on the NPAC SMS.

    The lnpNPAC-SMS-Operational-Information will be used to notify
    service provider SOA and Local SMS systems of planned outages.
  !;

```

-- 13.0 LNP Service Providers Managed Object Class

```

lnpServiceProvs MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":top;
  CHARACTERIZED BY
    lnpServiceProvsPkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 13};

lnpServiceProvsPkg PACKAGE
  BEHAVIOUR
    lnpServiceProvsDefinition,
    lnpServiceProvsBehavior;
  ATTRIBUTES
    lnpServiceProvsName GET;
  ;

```

lnpServiceProvsDefinition BEHAVIOUR

DEFINED AS !

The lnpServiceProvs class is the managed object that is used as the container object for the serviceProv objects on the NPAC SMS. This object has been created for scoping efficiency.

!;

lnpServiceProvsBehavior BEHAVIOUR

DEFINED AS !

NPAC SMS Managed Object used for the Local SMS to NPAC SMS interface.

A Local SMS and service provider SOA can M-GET any lnpServiceProvs object (Network Data Association Function). The lnpServiceProvsName attribute is read only and can not be changed via the Local SMS Interface once the object has been created. The value of lnpServiceProvsName will always be "lnpServiceProvs".

Only one of these objects will exist and it will only be created at startup of the CMIP agent software on the NPAC SMS.

!;

-- 14.0 LNP Subscriptions Managed Object Class

lnpSubscriptions MANAGED OBJECT CLASS

DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":top;

CHARACTERIZED BY

lnpSubscriptionsPkg,
subscriptionVersionLocalSMS-CreatePkg;

CONDITIONAL PACKAGES

lnpDownloadPkg PRESENT IF

!the object is instantiated on the NPAC SMS!;

subscriptionVersionOldSP-CreatePkg PRESENT IF

!the object is instantiated on the NPAC SMS!;

subscriptionVersionNewSP-CreatePkg PRESENT IF

!the object is instantiated on the NPAC SMS!;

subscriptionVersionDisconnectPkg PRESENT IF

!the object is instantiated on the NPAC SMS!;

subscriptionVersionModifyPkg PRESENT IF

!the object is instantiated on the NPAC SMS!;

subscriptionVersionActivatePkg PRESENT IF

!the object is instantiated on the NPAC SMS!;

subscriptionVersionCancelPkg PRESENT IF

!the object is instantiated on the NPAC SMS!;

subscriptionVersionOldSP-CancellationPkg PRESENT IF

!the object is instantiated on the NPAC SMS!;

subscriptionVersionNewSP-CancellationPkg PRESENT IF

!the object is instantiated on the NPAC SMS!;

subscriptionVersionRemoveFromConflictPkg PRESENT IF

!the object is instantiated on the NPAC SMS!;

REGISTERED AS {LNP-OIDS.lnp-objectClass 14};

lnpSubscriptionsPkg PACKAGE

BEHAVIOUR

lnpSubscriptionsDefinition,
lnpSubscriptionsBehavior;

ATTRIBUTES

lnpSubscriptionsName GET;

NOTIFICATIONS

subscriptionVersionLocalSMS-ActionResults;

;

lnpSubscriptionsDefinition BEHAVIOUR

DEFINED AS !

Local SMS and NPAC SMS Managed Object for the SOA to NPAC SMS and the Local SMS to NPAC SMS interface.

The lnpSubscriptions class is the managed object that is used as the container object for the subscription version objects on the NPAC SMS and the Local SMS.

Local SMS interfaces must be able to support scope/filtered M-SETs and M-DELETes with a TN range as the primary filter.

!;

lnpSubscriptionsBehavior BEHAVIOUR

DEFINED AS !

Local SMS and NPAC SMS Managed Object

The Local SMS (Data Download Association Function) and the service provider SOA (SOA Management Association Function) can M-GET any lnpSubscriptions object. The lnpSubscriptionsName attribute is read only and can not be changed via the Local SMS Interface once the object has been created. The value of lnpSubscriptionsName will always be "lnpSubscriptions".

Only one of these objects will exist and it will only be created at startup of the CMIP agent software on the NPAC SMS or the Local SMS.

The lnpDownloadPkg will only be used for a lnpSubscriptions object instantiated on the NPAC SMS. This package is used to used for initiating downloading of subscriptionVersions object creation, deletion, or modifications to the Local SMS (Data Download Association Function).

The subscriptionVersionOldSP-CreatePkg will only be used for a lnpSubscriptions object instantiated on the NPAC SMS. This package is used for creation of subscription versions for porting TNs by the old service provider.

The subscriptionVersionNewSP-CreatePkg will only be used for a lnpSubscriptions object instantiated on the NPAC SMS. This package is used for creation of subscription versions for porting TNs by the new service provider.

The subscriptionVersionDisconnectPkg will only be used for a lnpSubscriptions object instantiated on the NPAC SMS. This package is used for disconnection of a ported TN by the current service provider.

The subscriptionVersionModifyPkg will only be used for a lnpSubscriptions object instantiated on the NPAC SMS. This package is used for modification of a ported TN by a service provider.

The subscriptionVersionActivatePkg will only be used for a lnpSubscriptions object instantiated on the NPAC SMS. This package is used for activation of a ported TN by a new service provider.

The subscriptionVersionCancelPkg will only be used for a lnpSubscriptions object instantiated on the NPAC SMS. This package is used for cancellation of a ported TN by a service provider.

The subscriptionVersionOldSP-CancellationPkg will only be used for a lnpSubscriptions object instantiated on the NPAC SMS. This package is used for acknowledgment of subscription versions

with status values of cancel-pending. Acknowledgments from both old and new service provider SOAs take a version from cancel-pending and to a canceled state. This action is used by the old service provider SOA.

The subscriptionVersionNewSP-CancellationPkg will only be used for a lnpSubscriptions object instantiated on the NPAC SMS. This package is used for acknowledgment of subscription versions with status values of cancel-pending. Acknowledgments from both old and new service provider SOAs take a version out of cancel-pending and to a canceled state. This action is used by the new service provider SOA.

The subscriptionVersionRemoveFromConflictPkg will only be used for a lnpSubscriptions object instantiated on the NPAC SMS. This package is used for setting the status of subscription versions with status values of conflict to pending. This action is used by either the new or old service provider SOA.

!;

-- 15.0 LNP Service Provider Managed Object Class

```

serviceProv MANAGED OBJECT CLASS
  DERIVED FROM serviceProvNetwork;
  CHARACTERIZED BY
    serviceProvPkg;
  CONDITIONAL PACKAGES
    serviceProvBillingAddressPkg PRESENT IF
      !the service provider has billing address and contact
      information!,
    serviceProvSOA-AddressPkg PRESENT IF
      !the service provider has SOA address and contact information!,
    serviceProvLSMS-AddressPkg PRESENT IF
      !the service provider has LSMS address and contact information!,
    serviceProvWebAddressPkg PRESENT IF
      !the service provider has Web address and contact information!,
    serviceProvNetAddressPkg PRESENT IF
      !the service provider has network and communication facilities
      address and contact information!,
    serviceProvConflictAddressPkg PRESENT IF
      !the service provider has conflict resolution interface
      address and contact information!,
    serviceProvOperationsAddressPkg PRESENT IF
      !the service provider has operations address and contact
      information!,
    serviceProvRepairCenterInfoPkg PRESENT IF
      !the service provider has repair contact information!,
    serviceProvSecurityAddressPkg PRESENT IF
      !the service provider has security contact information!,
    serviceProvUserAdminAddressPkg PRESENT IF
      !the service provider has user administration interface address
      and contact information!;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 15};

serviceProvPkg PACKAGE
  BEHAVIOUR
    serviceProvDefinition,
    serviceProvBehavior;
  ATTRIBUTES
    npacCustomerAllowableFunctions GET-REPLACE,
    serviceProvAddress GET-REPLACE,
    serviceProvSysLinkInfo GET-REPLACE;
;

serviceProvDefinition BEHAVIOUR
  DEFINED AS !
    The serviceProv class is the managed object

```

used on the NPAC SMS to contain the data related to each LNP service provider.

!;

serviceProvBehavior BEHAVIOUR

DEFINED AS !

NPAC SMS Managed Object used for the Local SMS to NPAC SMS interface.

A Local SMS and service provider SOA can M-GET their own serviceProv object (Network Data Association Function). Attempts to read any service provider information other than their own will be rejected as unauthorized. All attributes in this object, except serviceProvID and npacCustomerAllowableFunctions can be M-SET by the Local SMS Interface once the object has been created on the NPAC SMS.

!;

-- 16.0 LNP Service Provider LRN Managed Object Class

serviceProvLRN MANAGED OBJECT CLASS

DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":top;

CHARACTERIZED BY

serviceProvLRN-Pkg;

REGISTERED AS {LNP-oids.lnp-objectClass 16};

serviceProvLRN-Pkg PACKAGE

BEHAVIOUR

serviceProvLRN-Definition,
serviceProvLRN-Behavior;

ATTRIBUTES

serviceProvLRN-ID GET,
serviceProvLRN-Value GET,
serviceProvDownloadReason GET,
serviceProvLRN-CreationTimeStamp GET;

;

serviceProvLRN-Definition BEHAVIOUR

DEFINED AS !

The serviceProvLRN class is the managed object used to identify Service Provider LRN values open for porting.

!;

serviceProvLRN-Behavior BEHAVIOUR

DEFINED AS !

Local SMS and NPAC SMS Managed Object used for the Local SMS to NPAC SMS interface.

All attributes are read only. Once created, the serviceProvLRN object can only be deleted via the Local SMS or SOA interface.

The serviceProvLRN-ID is specified by the NPAC SMS. The serviceProvLRN-CreationTimeStamp will reflect the current system date and time when the object is created.

NPAC SMS can M-GET, M-DELETE and M-CREATE any serviceProvLRN object on the Local SMS (Network Data Functional Unit). The Local SMS only creates local copies of serviceProvLRN objects after receiving the objects from an NPAC SMS create request, reading them from the NPAC SMS for initial instantiation, or from a download request.

A Local SMS or SOA can M-GET any serviceProvLRN object (Network Data Functional Unit).

The Local SMS can M-DELETE and M-CREATE any

serviceProvLRN object on the NPAC SMS for their own service provider id (Network Data Functional Unit). Attempts to take actions on other service provider objects will be rejected as unauthorized.

The creation or deletion of a serviceProvLRN object will be distributed to all Local SMSs.

The serviceProvLRN-Value attributes on the NPAC SMS can not be modified by the Local SMS or SOA. The service provider will have to add a new object and delete the old one to modify the data.

!;

-- 17.0 LNP Service Provider Network Managed Object Class

```
serviceProvNetwork MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":top;
  CHARACTERIZED BY
    serviceProvNetworkPkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 17};
```

```
serviceProvNetworkPkg PACKAGE
  BEHAVIOUR
    serviceProvNetworkDefinition,
    serviceProvNetworkBehavior;
  ATTRIBUTES
    serviceProvID GET,
    serviceProvName GET-REPLACE;
  ;
```

```
serviceProvNetworkDefinition BEHAVIOUR
  DEFINED AS !
    The serviceProvNetwork class is the managed object
    used to contain the network data for a service provider.
  !;
```

```
serviceProvNetworkBehavior BEHAVIOUR
  DEFINED AS !
    Local SMS and NPAC SMS Managed Object used for the Local SMS to
    NPAC SMS interface.

    Service providers and the NPAC SMS can M-GET, M-CREATE, and M-SET
    any serviceProvNetwork object (Network Data Association Function).
    The serviceProvID attribute is read only and can not be
    changed via the NPAC SMS to Local SMS Interface once the object
    has been created on the Local SMS or NPAC SMS. The
    serviceProvName can be M-SET via the NPAC SMS to Local
    SMS Interface by the NPAC SMS. The Local SMS only creates
    or modifies local copies of serviceProvNetwork objects
    after receiving the objects from an NPAC SMS M-CREATE or M-SET
    request or reading them from the NPAC SMS for initial instantiation.
  !;
```

-- 18.0 LNP Service Provider NPA-NXX Managed Object Class

```
serviceProvNPA-NXX MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":top;
  CHARACTERIZED BY
    serviceProvNPA-NXX-Pkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 18};
```

```
serviceProvNPA-NXX-Pkg PACKAGE
  BEHAVIOUR
    serviceProvNPA-NXX-Definition,
    serviceProvNPA-NXX-Behavior;
```

ATTRIBUTES

serviceProvNPA-NXX-ID GET,
 serviceProvNPA-NXX-Value GET,
 serviceProvNPA-NXX-EffectiveTimeStamp GET,
 serviceProvDownloadReason GET,
 serviceProvNPA-NXX-CreationTimeStamp GET;

;

serviceProvNPA-NXX-Definition BEHAVIOUR

DEFINED AS !

The serviceProvNPA-NXX class is the managed object used to identify Service Provider NPA-NXX values open for porting.

!;

serviceProvNPA-NXX-Behavior BEHAVIOUR

DEFINED AS !

Local SMS and NPAC SMS Managed Object used for the Local SMS to NPAC SMS interface.

All attributes are read only. Once created, the serviceProvNPA-NXX object can only be deleted via the Local SMS or SOA interface. The serviceProvNPA-NXX-ID is specified by the NPAC SMS. The serviceProvNPA-NXX-CreationTimeStamp will be set to the current system date and time when the object is created.

NPAC SMS can M-GET, M-DELETE and M-CREATE any serviceProvNPA-NXX object on the Local SMS (Network Data Association Function). The Local SMS only creates local copies of serviceProvNPA-NXX objects after receiving the objects from an NPAC SMS create, after reading them from the NPAC SMS for initial instantiation, or from a download.

Service providers can M-GET any serviceProvNPA-NXX object.

A Local SMS or SOA can M-DELETE and M-CREATE any serviceProvNPA-NXX object on the NPAC SMS for their own service provider id (Network Data Association Function). Attempts to take actions on other service provider objects will be rejected as unauthorized.

A Local SMS or SOA can not modify any of the attributes.

To cause an NPA-NXX split to occur the service provider must contact the NPAC SMS operations personnel.

!;

-- 19.0 LNP Subscription Audit Managed Object

subscriptionAudit MANAGED OBJECT CLASS

DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":top;

CHARACTERIZED BY

subscriptionAuditPkg;

REGISTERED AS {LNP-OIDS.lnp-objectClass 19};

subscriptionAuditPkg PACKAGE

BEHAVIOUR

subscriptionAuditDefinition,
 subscriptionAuditBehavior;

ATTRIBUTES

subscriptionAuditId GET,
 subscriptionAuditName GET,
 subscriptionAuditStatus GET,
 subscriptionAuditAttributeList GET,
 subscriptionAuditTN-Range GET,
 subscriptionAuditTN-ActivationRange GET,
 subscriptionAuditServiceProvIdRange GET,

```

subscriptionAuditNumberOfTNs GET,
subscriptionAuditNumberOfTNsComplete GET,
subscriptionAuditRequestingSP GET;
NOTIFICATIONS
subscriptionAuditResults,
subscriptionAudit-DiscrepancyRpt,
"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":attributeValueChange
    accessControlParameter,
"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":objectCreation
    accessControlParameter,
"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":objectDeletion
    accessControlParameter;
;

subscriptionAuditDefinition BEHAVIOUR
DEFINED AS !
    The subscriptionAudit class is the managed object that
    represents a subscription audit request. This object is
    only instantiated on the NPAC SMS.
!;

subscriptionAuditBehavior BEHAVIOUR
DEFINED AS !
    When the subscriptionAuditStatus changes an attribute value
    change will be emitted to the audit requester.

    All attributes must be specified upon create with the exception
    of the subscriptionAuditAttributeList and the
    subscriptionAuditTN-ActivationRange. If the
    subscriptionAuditAttributeList is not specified then a full
    audit is assumed. If the subscriptionAuditTN-ActivationRange is
    specified then an audit of all TNs in the range specified in
    subscriptionAuditTN-Range will be audited. The serviceAuditId
    is determined by the NPAC SMS.

    The subscriptionAuditRequestingSP is the id of the service provider
    who requested the audit.

    The NPAC SMS will be required to set the number of TNs that
    will be audited in the subscriptionAuditNumberOfTNs attribute
    based on the NPAC SMS audit request criteria. An attribute value
    change notification will be emitted when the
    subscriptionAuditNumberOfTNs is set.

    The SOA or NPAC SMS can M-CREATE, M-GET subscriptionAudit
    managed objects on the NPAC SMS (SOA Management Function).
    When a subscriptionAudit object is created on the NPAC SMS the
    NPAC SMS will begin the audit for the service provider specified
    or all service providers. The SOA can only M-GET subscriptionAudit
    that they created.

    The SOA will be required to set the requesting SP with
    their service provider id so that the origination of the audit
    request can be tracked and notifications can be sent to the
    requesting SOA.

    The subscriptionAuditTN-Range will be limited based on the
    maximum range size specified in the NPAC SMS. If the limit
    specified is exceeded, the create request will fail with an
    invalidAttributeValue error.

    When this object is created and deleted, object creation and
    deletion notifications will be sent to the requester. Object
    deletion indicates completion of an audit. The audit results
    notification will be sent before the object is deleted by the
    entity performing the audit indicating how many discrepancies the
    audit found and reported during execution.

```

If discrepancies are found during the audit, audit discrepancy notifications will be sent to the requester at the time they are found. When audit discrepancy notifications are sent to the NPAC SMS by the Local SMS, create or modify requests will be sent to the Local SMS by the NPAC SMS to correct the discrepancies found.

Deletion of an audit object cancels an audit request.

!;

-- 20.0 LNP subscription Version Managed Object Class

```
subscriptionVersion MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":top;
  CHARACTERIZED BY
    subscriptionVersionPkg;
  REGISTERED AS {LNP-OIDS.lnp-objectClass 20};
```

```
subscriptionVersionPkg PACKAGE
  BEHAVIOUR
    subscriptionVersionDefinition,
    subscriptionVersionBehavior;
  ATTRIBUTES
    subscriptionVersionId GET,
    subscriptionTN GET-REPLACE,
    subscriptionLRN GET-REPLACE,
    subscriptionNewCurrentSP GET-REPLACE,
    subscriptionActivationTimeStamp GET-REPLACE,
    subscriptionCLASS-DPC GET-REPLACE,
    subscriptionCLASS-SSN GET-REPLACE,
    subscriptionLIDB-DPC GET-REPLACE,
    subscriptionLIDB-SSN GET-REPLACE,
    subscriptionCNAM-DPC GET-REPLACE,
    subscriptionCNAM-SSN GET-REPLACE,
    subscriptionISVM-DPC GET-REPLACE,
    subscriptionISVM-SSN GET-REPLACE,
    subscriptionEndUserLocationValue GET-REPLACE,
    subscriptionEndUserLocationType GET-REPLACE,
    subscriptionBillingId GET-REPLACE,
    subscriptionLNPTType GET-REPLACE,
    subscriptionDownloadReason GET-REPLACE;
;
```

```
subscriptionVersionDefinition BEHAVIOUR
  DEFINED AS !
    The subscriptionVersion class is the managed object that
    represents a subscription version on the Local SMS.
  !;
```

```
subscriptionVersionBehavior BEHAVIOUR
  DEFINED AS !
    Local SMS Managed Object

    NPAC SMS can M-GET (Query Association Function), M-SET, M-DELETE
    and M-CREATE (Data Download Association Function) any
    subscriptionVersion object on the Local SMS (Data Download
    Association Function). The Local SMS only creates local copies
    of subscriptionVersion objects after receiving the objects from an
    NPAC SMS create request or reading them from the NPAC SMS for
    initial instantiation.
```

The serviceProvVersionId with subscriptionVersionId is assigned upon creation by the NPAC SMS and is read only.

The subscriptionTN, subscriptionLRN and associated routing

information, are specified by the new service provider SOA upon creation of a new subscription version.

The subscriptionActivationTimeStamp is the time when the subscription version was activated by the new service provider.

When the subscription version is downloaded to the locals, the subscriptionDownloadReason is set to one of new, delete, modified, or audit-discrepancy. This field is not validated in audits.

When the subscription version status is set to disconnect pending or old, the subscriptionVersionDonorSP-CustomerDisconnectDate is sent to the donor SOA informing the service provider of the actual customer disconnect date.

The Local SMS can not modify any of the subscription version data locally unless changes were downloaded via a download request.

!;

-- 21.0 LNP NPAC Subscription Version Managed Object Class

subscriptionVersionNPAC MANAGED OBJECT CLASS

```
DERIVED FROM subscriptionVersion;
CHARACTERIZED BY
    subscriptionVersionNPAC-Pkg;
REGISTERED AS {LNP-OIDS.lnp-objectClass 21};
```

subscriptionVersionNPAC-Pkg PACKAGE

BEHAVIOUR

```
    subscriptionVersionNPAC-Definition,
    subscriptionVersionNPAC-Behavior;
```

ATTRIBUTES

```
    subscriptionVersionStatus GET-REPLACE,
    subscriptionOldSP GET-REPLACE,
    subscriptionNewSP-DueDate GET-REPLACE,
    subscriptionNewSP-CreationTimeStamp GET-REPLACE,
    subscriptionOldSP-DueDate GET-REPLACE,
    subscriptionOldSP-Authorization GET-REPLACE,
    subscriptionStatusChangeCauseCode GET-REPLACE,
    subscriptionOldSP-AuthorizationTimeStamp GET-REPLACE,
    subscriptionBroadcastTimeStamp GET-REPLACE,
    subscriptionConflictTimeStamp GET-REPLACE,
    subscriptionCustomerDisconnectDate GET-REPLACE,
    subscriptionEffectiveReleaseDate GET-REPLACE,
    subscriptionDisconnectCompleteTimeStamp GET-REPLACE,
    subscriptionCancellationTimeStamp GET-REPLACE,
    subscriptionCreationTimeStamp GET-REPLACE,
    subscriptionFailed-SP-List GET-REPLACE,
    subscriptionModifiedTimeStamp GET-REPLACE,
    subscriptionOldTimeStamp GET-REPLACE,
    subscriptionOldSP-CancellationTimeStamp GET-REPLACE,
    subscriptionNewSP-CancellationTimeStamp GET-REPLACE,
    subscriptionOldSP-ConflictResolutionTimeStamp GET-REPLACE,
    subscriptionNewSP-ConflictResolutionTimeStamp GET-REPLACE,
    subscriptionPortingToOriginal-SPSwitch GET-REPLACE,
    subscriptionPreCancellationStatus GET-REPLACE;

NOTIFICATIONS
    subscriptionVersionOldSP-ConcurrenceRequest,
    subscriptionVersionNewSP-CreateRequest,
    subscriptionVersionNewNPA-NXX,
    subscriptionVersionCancellationAcknowledgeRequest,
    subscriptionVersionDonorSP-CustomerDisconnectDate,
    subscriptionVersionStatusAttributeValueChange,
    "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":attributeValueChange
    accessControlParameter,
```


"CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":objectCreation
accessControlParameter;
;
subscriptionVersionNPAC-Definition BEHAVIOUR
DEFINED AS !
The subscriptionVersionNPAC class is the managed object
that represents a subscription version on the NPAC SMS.
!;
subscriptionVersionNPAC-Behavior BEHAVIOUR
DEFINED AS !
NPAC SMS Managed Object for the SOA to NPAC SMS and the Local SMS
to NPAC SMS interface.

A Local SMS can M-GET any subscriptionVersionNPAC objects
from the NPAC SMS via the Local SMS Interface (Data Download
Association Function).

A Service Provider SOA can M-GET any subscriptionVersionNPAC
objects from the NPAC SMS via the SOA Interface (SOA Management
Association Function).

If a Service Provider SOA or Local SMS does a scoped filtered
M-GET for subscription versions, this request will only be
successful if a the number of records to be returned is less
than or equal to the NPAC SMS tunable parameter,
"Max Subscriber Query", in the Service Data table.

When the status of an object is changed to "cancel-pending",
subscriptionPreCancellationStatus is first set to the current status.

The subscriptionCreationTimeStamp is set to the current system
time when the object is created.

When the subscription version is modified for any reason, the
subscriptionModifiedTimeStamp is updated with the current system time.

When the subscription version is broadcast to Local SMSs via
the NPAC to Local SMS interface, the subscriptionBroadcastTimeStamp
is updated with the current system time.

When the subscription version has its version status set to old,
the subscriptionOldTimeStamp is updated with the current system
time.

When the subscription version has its version status set to cancel,
the subscriptionCancellationTimeStamp is updated with the
current system time.

When the subscription version has its version status set to
conflict, the subscriptionConflictTimeStamp is updated with the
current system time.

When the subscription version is disconnected and the version
status is set to old, the subscriptionDisconnectCompleteTimeStamp
is updated with the current system time.

When the subscription version status is set to disconnect pending
the subscriptionEffectiveReleaseDate is set to the date the
disconnect should be broadcast.

When the subscription version in a cancel-pending
state is acknowledged by an old service provider SOA, the
subscriptionOldSP-CancellationTimeStamp is updated with the
current system time.

When the subscription version in a cancel-pending state is acknowledged by a new service provider SOA, the subscriptionNewSP-CancellationTimeStamp is updated with the current system time.

When the subscription version in a conflict state is removed from conflict by the old service provider SOA, the subscriptionOldSP-ConflictResolutionTimeStamp is updated with the current system time.

When the subscription version in a conflict state is removed from conflict by the new service provider SOA, the subscriptionNewSP-ConflictResolutionTimeStamp is updated with the current system time.

When the subscription version status is failed or partially-failed, the subscriptionFailed-SP-List is populated with a list of the failed service providers.

The Service Provider SOA can M-GET and M-SET subscriptionVersionNPAC objects via the SOA to NPAC SMS interface (SOA Management Association Function). Rules for M-SET are described below.

For M-GET requests, the filter will support all attributes for a specified ported TN.

Any service provider SOA can view any subscription version for any ported TN (SOA Management Association Function).

Subscription versions are created on the NPAC SMS via actions over the SOA to NPAC SMS interface to the lnpSubscriptions object (SOA Management Association Function). New service provider SOAs must use the subscriptionVersionNewSP-Create action and old service provider SOAs must use the subscriptionVersionOldSP-Create action. Creates can only be performed provided there is only one currently active subscription version for the TN.

subscriptionPortingToOriginal-SPSwitch can only be specified as TRUE for a TN that is currently ported and is being ported back to the original service provider. If the value of subscriptionPortingToOriginal-SPSwitch is TRUE, the LRN and GTT data should not be specified. This data is not specified because when the activate occurs for the subscription version, the Local SMS will receive requests to delete the old subscription version routing data in their networks and they will not receive any new network routing data for the subscription. Concurrence from the old service provider is required.

If the port of the subscription version is an intra-service provider port, the new service provider SOA can use the subscriptionVersionNewSP-Create action specifying the old service provider equal to the new service provider. In this case, the old service provider create action is not required and processing proceeds after a valid pending version is created in the same manner as it does for inter-service provider porting.

Once a version has been created that passes validation, the subscriptionVersionNPAC object subscriptionVersionStatus will be set to pending and an object creation notification will be sent to both old and new service provider SOAs. If a version previously existed, attribute value change notifications will be sent to both old and new service provider SOAs.

If there is a pending version that does not have concurrence during the "Service Provider Concurrence Window" specified in the Service Data table, a subscriptionVersionNoConcurrence notification will be sent to the service provider SOA that has not responded. The

subscriptionVersionStatus will be set to cancel-pending if the new service provider SOA has not responded or to conflict if the old service provider SOA has not responded after the "Service Provider Concurrence Failure Window" specified in the Service Data table. An attribute value change will be sent to the service provider SOA that sent the original create request.

The Service Provider SOA can M-SET attributes associated with pending, or conflict subscription versions (SOA Management Association Function).

Attempts to modify an active, sending, failed, canceled, cancel-pending, disconnect-pending or old version using M-SET will result in an access denied error.

Modification of an active subscription can only be done by the current/new service provider SOA using the subscriptionVersionModify action.

The modify action can be used by both old and new service provider SOAs to update pending or conflict subscription versions.

Old service provider SOAs can only modify the following attributes:

- subscriptionOldSP-DueDate
- subscriptionOldSP-Authorization
- subscriptionStatusChangeCauseCode

New service provider SOAs can only modify the following attributes:

- subscriptionLRN
- subscriptionNewSP-DueDate
- subscriptionCLASS-DPC
- subscriptionCLASS-SSN
- subscriptionLIDB-DPC
- subscriptionLIDB-SSN
- subscriptionCNAM-DPC
- subscriptionCNAM-SSN
- subscriptionISVM-DPC
- subscriptionISVM-SSN
- subscriptionEndUserLocationValue
- subscriptionEndUserLocationType
- subscriptionBillingId

Validation will be done for both old and new service provider data that is specified on an M-SET. If validation fails, no changes will be made and a processing failure will be returned. If the version passes validation, the version status will be set to pending. An error message will be returned to the service provider if the status is not pending when they attempt to change the version status to cancel-pending.

Once a pending version has been created, the new service provider can activate the subscription version if authorization for the port has been received by the old service provider within the "Service Provider Concurrence Cancellation Window".

Once the version is activated, the version status is set to sending, the broadcast time stamp is updated, and creates are sent to the Local SMSs.

If the create requests are successful for all Local SMSs, the version status will be marked as active and the previously active subscription version will have its version status set to old.

If create requests fail for a subscription version after the retry periods have expired, the version status will be set

to failed or partially-failed based on if the download failed in all or some of the Local SMSs respectively.

A status version attribute value change will be sent to both old and new service providers when the subscriptionVersionStatus is modified. If the version status is failed or partially-failed then a list of failed service providers is provided in the subscriptionVersionStatus notification.

A subscription version can be put into conflict by either the NPAC SMS or by the old service provider explicitly setting the subscriptionOldSP-Authorization off or by not responding with the subscriptionVersionOldSP-Create action.

If the old service provider explicitly sets the subscriptionOldSP-Authorization off, the subscriptionStatusChangeCauseCode must be given.

The old service provider can only put a subscription version into conflict once and only by explicitly setting the subscriptionOldSP-Authorization off.

A service provider should acknowledge the conflict resolution pending state within a tunable time frame specified on the NPAC SMS with a conflict resolution acknowledgement action.

A service provider should acknowledge the cancel pending state within a tunable time frame specified on the NPAC SMS with a cancel acknowledgement action.

If a service provider SOA fails to acknowledge the cancel pending state, a subscriptionVersionCancellationAcknowledgeRequest is sent to the service provider SOA. If they do not respond to this acknowledgement in a tunable time frame specified on the NPAC SMS, the version status will be set to conflict.

Attribute value change notifications will be sent to both service provider SOAs when the following attribute values change for a pending, cancel-pending, conflict or disconnect-pending subscription versions:

```
subscriptionNewSP-DueDate
subscriptionNewSP-CreationTimeStamp
subscriptionOldSP-DueDate
subscriptionOldSP-Authorization
subscriptionOldSP-AuthorizationTimeStamp
subscriptionStatusChangeCauseCode
subscriptionVersionStatus
```

Object creation notifications will be sent to both old and new service provider SOAs when a subscriptionVersionNPAC associated with their Service Provider id is created. Object deletion notifications will not be used. Objects will only be deleted by the NPAC SMS as a result of housekeeping processing.

Prior to when the subscription version status is set to disconnect pending or old, the subscriptionVersionDonorSP-CustomerDisconnectDate is sent to the donor SOA informing the service provider of the actual customer disconnect date.

!;

```
-- 22.0 LNP Log Record for the Subscription Version Donor Service Provider
--      Customer Disconnect Date Notification
```

```
lnpLogDonorSP-CustomerDisconnectDateRecord MANAGED OBJECT CLASS
DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":eventLogRecord;
```

```
CHARACTERIZED BY
    lnLogDonorSP-CustomerDisconnectDatePkg;
REGISTERED AS {LNP-OIDS.lnp-objectClass 22};

lnLogDonorSP-CustomerDisconnectDatePkg PACKAGE
BEHAVIOUR
    lnLogDonorSP-CustomerDisconnectDateDefinition,
    lnLogDonorSP-CustomerDisconnectDateBehavior;
ATTRIBUTES
    subscriptionTN GET,
    subscriptionVersionId GET,
    subscriptionCustomerDisconnectDate GET,
    subscriptionEffectiveReleaseDate GET,
    accessControl GET;
;

lnLogDonorSP-CustomerDisconnectDateDefinition BEHAVIOUR
DEFINED AS !
    The lnLogDonorSP-CustomerDisconnectDateRecord class is the managed
    object that is used to create log records for the
    subscriptionVersionDonorSP-CustomerDisconnectDate Notification.
!;

lnLogDonorSP-CustomerDisconnectDateBehavior BEHAVIOUR
DEFINED AS !
    This log record can be used by any CME wanting to log the
    subscriptionVersionDonorSP-CustomerDisconnectDate Notification.
!;

-- 23.0 LNP Log Record for the Subscription Version Local SMS Action Results
-- Notification

lnLogLocalSMS-ActionResultsRecord MANAGED OBJECT CLASS
DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":eventLogRecord;
CHARACTERIZED BY
    lnLogLocalSMS-ActionResultsPkg;
REGISTERED AS {LNP-OIDS.lnp-objectClass 23};

lnLogLocalSMS-ActionResultsPkg PACKAGE
BEHAVIOUR
    lnLogLocalSMS-ActionResultsDefinition,
    lnLogLocalSMS-ActionResultsBehavior;
ATTRIBUTES
    actionId GET,
    actionResultsStatus GET,
    failedTN-List GET,
    resultsCompletionTime GET,
    accessControl GET;
;

lnLogLocalSMS-ActionResultsDefinition BEHAVIOUR
DEFINED AS !
    The lnLogLocalSMS-ActionResultsRecord class is the managed
    object that is used to create log records for the
    subscriptionVersionLocalSMS-ActionResults Notification.
!;

lnLogLocalSMS-ActionResultsBehavior BEHAVIOUR
DEFINED AS !
    This log record can be used by any CME wanting to log the
    subscriptionVersionLocalSMS-ActionResults Notification.
!;

-- 24.0 LNP Log Record for the Subscription Version New NPA-NXX Notification

lnLogNewNPA-NXXRecord MANAGED OBJECT CLASS
DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":eventLogRecord;
```

```

CHARACTERIZED BY
    lnpLogNewNPA-NXXPkg;
REGISTERED AS {LNP-OIDS.lnp-objectClass 24};

lnpLogNewNPA-NXXPkg PACKAGE
BEHAVIOUR
    lnpLogNewNPA-NXXDefinition,
    lnpLogNewNPA-NXXBehavior;
ATTRIBUTES
    serviceProvNPA-NXX-ID GET,
    serviceProvNPA-NXX-Value GET,
    serviceProvNPA-NXX-EffectiveTimeStamp GET,
    serviceProvID GET,
    accessControl GET;
;

lnpLogNewNPA-NXXDefinition BEHAVIOUR
DEFINED AS !
    The lnpLogNewNPA-NXX class is the managed
    object that is used to create log records for the
    subscriptionVersionNewNPA-NXX Notification.
!;

lnpLogNewNPA-NXXBehavior BEHAVIOUR
DEFINED AS !
    This log record can be used by any CME wanting to log the
    subscriptionVersionNewNPA-NXX Notification.
!;

-- 25.0 LNP Service Provider NPA-NXX Managed Object Class

lsmsFilterNPA-NXX MANAGED OBJECT CLASS
    DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":top;
    CHARACTERIZED BY
        lsmsFilterNPA-NXX-Pkg;
    REGISTERED AS {LNP-OIDS.lnp-objectClass 25};

lsmsFilterNPA-NXX-Pkg PACKAGE
BEHAVIOUR
    lsmsFilterNPA-NXX-Definition,
    lsmsFilterNPA-NXX-Behavior;
ATTRIBUTES
    lsmsFilterNPA-NXX-ID GET,
    lsmsFilterNPA-NXX-Value GET;
;

lsmsFilterNPA-NXX-Definition BEHAVIOUR
DEFINED AS !
    The lsmsFilterNPA-NXX class is the managed object
    used to identify the NPA-NXX values for which a service provider
    does not want to be informed of subscription version broadcasts.
!;

lsmsFilterNPA-NXX-Behavior BEHAVIOUR
DEFINED AS !
    NPAC SMS Managed Object used for the Local SMS to NPAC SMS interface.

    All attributes are read only. Once created, the lsmsFilterNPA-NXX
    object can only be deleted via the Local SMS interface. The
    lsmsFilterNPA-NXX-ID is specified by the NPAC SMS.

    The Local SMS can M-DELETE, M-CREATE and M-GET any
    lsmsFilterNPA-NXX object on the NPAC SMS. (LSMS Network Data
    Association Function).

!;

```

```

-- 26.0 LNP Log Record for the Subscription Version Final Concurrence
-- Timer Expiration

lnpLogOldSPFinalConcurrenceWindowExpirationRecord MANAGED OBJECT CLASS
  DERIVED FROM "CCITT Rec. X.721 (1992) | ISO/IEC 10165-2 : 1992":eventLogRecord;
  CHARACTERIZED BY
    lnpLogOldSPFinalConcurrenceWindowExpirationPkg;
  REGISTERED AS {LNP-IDS.lnp-objectClass 5};

lnpLogOldSPFinalConcurrenceWindowExpirationPkg PACKAGE
  BEHAVIOUR
    lnpLogOldSPFinalConcurrenceWindowExpirationDefinition,
    lnpLogOldSPFinalConcurrenceWindowExpirationBehavior;
  ATTRIBUTES
    subscriptionTN GET,
    subscriptionVersionId GET,
    accessControl GET;
  ;

lnpLogOldSPFinalConcurrenceWindowExpirationDefinition BEHAVIOUR
  DEFINED AS !
    The lnpLogOldSPFinalConcurrenceWindowExpirationRecord class is
    the managed object that is used to create log records for the
    subscriptionVersionOldSPFinalConcurrenceWindowExpiration
    Notification.
  !;

lnpLogOldSPFinalConcurrenceWindowExpirationBehavior BEHAVIOUR
  DEFINED AS !
    This log record can be used by any CME wanting to log the
    subscriptionVersionOldSPFinalConcurrenceWindowExpiration
    Notification.
  !;

--

7.3.  -- Name Binding Definitions

--

-- 1.0 LNP Audits Managed Object Name Bindings

lnpAudits-lnpNPAC-SMS NAME BINDING
  SUBORDINATE OBJECT CLASS lnpAudits AND SUBCLASSES;
  NAMED BY
    SUPERIOR OBJECT CLASS lnpNPAC-SMS AND SUBCLASSES;
  WITH ATTRIBUTE lnpAuditsName;
  -- Note: Create through interface is not supported.
  -- Note: Delete through interface is not supported.
  REGISTERED AS {LNP-IDS.lnp-nameBinding 1};

lnpAudits-lnpLocalSMS NAME BINDING
  SUBORDINATE OBJECT CLASS lnpAudits AND SUBCLASSES;
  NAMED BY
    SUPERIOR OBJECT CLASS lnpLocalSMS AND SUBCLASSES;
  WITH ATTRIBUTE lnpAuditsName;
  -- Note: Create through interface is not supported.
  -- Note: Delete through interface is not supported.
  REGISTERED AS {LNP-IDS.lnp-nameBinding 2};

-- 2.0 LNP Local SMS Managed Object Name Bindings

lnpLocalSMS-root NAME BINDING
  SUBORDINATE OBJECT CLASS lnpLocalSMS AND SUBCLASSES;
  NAMED BY
    SUPERIOR OBJECT CLASS "CCITT Rec. X.660 (1992) | ISO/IEC 9834-1 : 1992":root;
  WITH ATTRIBUTE lnpLocal-SMS-Name;

```

-- Note: Create through interface is not supported.
 -- Note: Delete through interface is not supported.
 REGISTERED AS {LNP-OIDS.lnp-nameBinding 3};

-- 3.0 LNP Network Managed Object Name Bindings

lnpNetwork-lnpNPAC-SMS NAME BINDING
 SUBORDINATE OBJECT CLASS lnpNetwork AND SUBCLASSES;
 NAMED BY
 SUPERIOR OBJECT CLASS lnpNPAC-SMS AND SUBCLASSES;
 WITH ATTRIBUTE lnpNetworkName;
 -- Note: Create through interface is not supported.
 -- Note: Delete through interface is not supported.
 REGISTERED AS {LNP-OIDS.lnp-nameBinding 4};

lnpNetwork-lnpLocalSMS NAME BINDING
 SUBORDINATE OBJECT CLASS lnpNetwork AND SUBCLASSES;
 NAMED BY
 SUPERIOR OBJECT CLASS lnpLocalSMS AND SUBCLASSES;
 WITH ATTRIBUTE lnpNetworkName;
 -- Note: Create through interface is not supported.
 -- Note: Delete through interface is not supported.
 REGISTERED AS {LNP-OIDS.lnp-nameBinding 5};

-- 4.0 LNP NPAC SMS Managed Object Name Bindings

lnpNPAC-SMS-root NAME BINDING
 SUBORDINATE OBJECT CLASS lnpNPAC-SMS AND SUBCLASSES;
 NAMED BY
 SUPERIOR OBJECT CLASS "CCITT Rec. X.660 (1992) | ISO/IEC 9834-1 : 1992":root;
 WITH ATTRIBUTE lnpNPAC-SMS-Name;
 -- Note: Create through interface is not supported.
 -- Note: Delete through interface is not supported.
 REGISTERED AS {LNP-OIDS.lnp-nameBinding 6};

-- 5.0 LNP Service Providers Managed Object Name Bindings

lnpServiceProvs-lnpNPAC-SMS NAME BINDING
 SUBORDINATE OBJECT CLASS lnpServiceProvs AND SUBCLASSES;
 NAMED BY
 SUPERIOR OBJECT CLASS lnpNPAC-SMS AND SUBCLASSES;
 WITH ATTRIBUTE lnpServiceProvsName;
 -- Note: Create through interface is not supported.
 -- Note: Delete through interface is not supported.
 REGISTERED AS {LNP-OIDS.lnp-nameBinding 7};

-- 6.0 LNP Subscriptions Managed Object Class Name Bindings

lnpSubscriptions-lnpNPAC-SMS NAME BINDING
 SUBORDINATE OBJECT CLASS lnpSubscriptions AND SUBCLASSES;
 NAMED BY
 SUPERIOR OBJECT CLASS lnpNPAC-SMS AND SUBCLASSES;
 WITH ATTRIBUTE lnpSubscriptionsName;
 -- Note: Create through interface is not supported.
 -- Note: Delete through interface is not supported.
 REGISTERED AS {LNP-OIDS.lnp-nameBinding 8};

lnpSubscriptions-lnpLocalSMS NAME BINDING
 SUBORDINATE OBJECT CLASS lnpSubscriptions AND SUBCLASSES;
 NAMED BY
 SUPERIOR OBJECT CLASS lnpLocalSMS AND SUBCLASSES;
 WITH ATTRIBUTE lnpSubscriptionsName;
 -- Note: Create through interface is not supported.
 -- Note: Delete through interface is not supported.
 REGISTERED AS {LNP-OIDS.lnp-nameBinding 9};

-- 7.0 LNP Service Provider Managed Object Class Name Bindings


```
serviceProv-lnpServiceProvs NAME BINDING
  SUBORDINATE OBJECT CLASS serviceProv AND SUBCLASSES;
  NAMED BY
    SUPERIOR OBJECT CLASS lnServiceProvs AND SUBCLASSES;
  WITH ATTRIBUTE serviceProvID;
  CREATE;
  DELETE ONLY-IF-NO-CONTAINED-OBJECTS;
  REGISTERED AS {LNP-OIDS.lnp-nameBinding 10};

-- 8.0 LNP Service Provider LRN Managed Object Class Name Bindings

serviceProvLRN-serviceProvNetwork NAME BINDING
  SUBORDINATE OBJECT CLASS serviceProvLRN AND SUBCLASSES;
  NAMED BY
    SUPERIOR OBJECT CLASS serviceProvNetwork AND SUBCLASSES;
  WITH ATTRIBUTE serviceProvLRN-ID;
  CREATE WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE ONLY-IF-NO-CONTAINED-OBJECTS;
  REGISTERED AS {LNP-OIDS.lnp-nameBinding 11};

-- 9.0 LNP Service Provider Network Managed Object Class Name Bindings

serviceProvNetwork-lnpNetwork NAME BINDING
  SUBORDINATE OBJECT CLASS serviceProvNetwork AND SUBCLASSES;
  NAMED BY
    SUPERIOR OBJECT CLASS lnNetwork AND SUBCLASSES;
  WITH ATTRIBUTE serviceProvID;
  CREATE;
  DELETE ONLY-IF-NO-CONTAINED-OBJECTS;
  REGISTERED AS {LNP-OIDS.lnp-nameBinding 12};

-- 10.0 LNP Service Provider NPA-NXX Managed Object Class Name Bindings

serviceProvNPA-NXX-serviceProvNetwork NAME BINDING
  SUBORDINATE OBJECT CLASS serviceProvNPA-NXX AND SUBCLASSES;
  NAMED BY
    SUPERIOR OBJECT CLASS serviceProvNetwork AND SUBCLASSES;
  WITH ATTRIBUTE serviceProvNPA-NXX-ID;
  CREATE WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE ONLY-IF-NO-CONTAINED-OBJECTS;
  REGISTERED AS {LNP-OIDS.lnp-nameBinding 13};

-- 11.0 LNP Subscription Audit for the NPAC SMS Managed Object

subscriptionAudit-lnpAudits NAME BINDING
  SUBORDINATE OBJECT CLASS subscriptionAudit AND SUBCLASSES;
  NAMED BY
    SUPERIOR OBJECT CLASS lnAudits AND SUBCLASSES;
  WITH ATTRIBUTE subscriptionAuditId;
  CREATE WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE ONLY-IF-NO-CONTAINED-OBJECTS;
  REGISTERED AS {LNP-OIDS.lnp-nameBinding 14};

-- 12.0 LNP Subscription Version Managed Object Class

subscriptionVersion-lnpSubscriptions NAME BINDING
  SUBORDINATE OBJECT CLASS subscriptionVersion AND SUBCLASSES;
  NAMED BY
    SUPERIOR OBJECT CLASS lnSubscriptions AND SUBCLASSES;
  WITH ATTRIBUTE subscriptionVersionId;
  CREATE WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE ONLY-IF-NO-CONTAINED-OBJECTS;
  REGISTERED AS {LNP-OIDS.lnp-nameBinding 15};

-- 13.0 LNP Service Provider LSMS Filter NPA-NXX Managed Object Class
```